COMMON GEOMETRIC PRACTICES RURAL LOCAL ROADS

		TRAFFIC VOLUME								
	TERRIAN	UNDER 50 A.D.T.	50-2 A.D		250-400 A.D.T.	400-1500 A.D.T.	1500- A.D		OVER 2000 A.D.T.	
MINIMUM 6 DESIGN 6 SPEED 7	LEVEL	3	0		40	50				
	ROLLING	20	30			40				
SPEED (M.P.H.)	MOUNTAIN		20)	30					
PAVEMENT WIDTH (FEET) 4 8		DESIGN SPEED	UNDER 40 A.D.T.		0	400-1500 A.D.T.	1500- A.D		OVER 2000 A.D.T.	
		15 MPH 20 MPH 25 MPH 30 MPH	18			20 9	20		22 24 11	
		40 MPH 45 MPH 50 MPH 55 MPH	20			22	24			
MIN. GRADED SHOULDER WIDTH (FEET)		60 MPH ALL SPEEDS	2			5 9 10			8	
MIN. CLEAR ROADWAY WIDTH OF NEW AND RECONSTRUCTED BRIDGES		ALL SPEEDS	APPROACH ROADWAY WIDTH							
MINIMUM RADIUS (FEET)		DESIGN SPEED		eMAX. 4%		eMAX. 6%		eMAX. 8%		
		20 MPH		125		115		105		
		25 MPH			205		185		170	
		30 MPH		300		275		250		
		35 MPH		420		380		350		
			40 MPH		565		510		465	
		45 MPH 50 MPH	50 MPH		730 930		660 835		600 760	
NORMAL P	AVEMENT 3	RATE OF CROSS SLOPE = 2%								
NORMAL SHOULDER CROSS SLOPES		EARTH = 8%				PAVED = 4%				
MAXI	MUM	M.P.H.	20	25	30	35	40	45	50	
GRADE (PERCENT)		LEVEL ROLLING	8	11		7 10		9	6 8	
MINIMUM STOPPING 1		MOUNTAIN	16	15		14	13	12	10	
SIGHT DI	STANCE -	(FEET)	115	155	200	250	305	360	425	
MINIMUM PASSING SIGHT DISTANCE		(FEET)	710	900	1090	1280	1470	1625	1835	

- MINIMUM STOPPING SIGHT DISTANCE BASED ON HEIGHT OF EYE OF 3.5 FT AND HEIGHT OF OBJECT OF 2.0 FT. CONSIDER BOTH HORIZONTAL AND VERTICAL ALIGNMENT.
- (2) MINIMUM PASSING SIGHT DISTANCE BASED ON HEIGHT OF EYE OF 3.5 FT AND HEIGHT OF OBJECT OF 3.5 FT. CONSIDER BOTH HORIZONTAL AND VERTICAL ALIGNMENTS.
- (3) NORMAL PAVEMENT CROSS SLOPES ON BRIDGES IS 2%.
- (4) CONSIDER CURVE WIDENING ON PROJECTS WITH SIGNIFICANT TRUCK VOLUMES.
- (5) WIDEN 3 FT FOR GUARDRAIL.
- (6) WHERE SELECTED DESIGN SPEED IS > 50 MPH, USE COMMON GEOMETRIC PRATICES EXHIBIT 500-02 FOR RURAL COLLECTOR ROADS.
- 7 DOCUMENT AND RETAIN JUSTIFICATION FOR A DESIGN SPEED LESS THAN THE REGULATORY OR POSTED SPEED IN THE PROJECT FILES.
- (8) FOR ROADS < 400 ADT, REFER TO AASHTO'S "GEOMETRIC DESIGN GUIDELINES FOR VERY LOW-VOLUME LOCAL ROADS (ADT<400)".
- 9 FOR ROADS IN MOUNTAINOUS TERRAIN WITH DESIGN VOLUME OF 400 TO 600 VEH/DAY, USE 18 FT TRAVELED WAY WIDTH AND 2 FT SHOULDER WIDTH.
- (10) MAY BE ADJUSTED TO ACHIEVE A MINIMUM ROADWAY WIDTH OF 30 FT FOR DESIGN SPEEDS > THAN 40 MPH.
- WHERE THE WIDTH OF THE TRAVELED WAY IS SHOWN AS 24 FT, THE WIDTH MAY REMAIN AT 22 FT ON RECONSTRUCTED HIGHWAYS WHERE SAFETY RECORDS AND ALIGNMENT ARE SATISFACTORY.